THE

PROCEEDINGS

OF THE

ROYAL ENTOMOLOGICAL SOCIETY

OF

LONDON

Series A.

GENERAL ENTOMOLOGY

VOL. 19

LONDON:

PUBLISHED BY THE SOCIETY AND

SOLD AT ITS ROOMS, 41, QUEEN'S GATE, S.W.7

1944

PRINTED IN GREAT BRITAIN BY
RICHARD CLAY AND COMPANY, LTD.,
BUNGAY, SUFFOLK.

CONTENTS

PAGE

ARROW, Gilbert J., F.Z.S., F.R.E.S. Reduction of segmentation in the Coleoptera . 107

BURTT, E. D., Ph.D., F.R.E.S., and UVAROV, B. P., C.M.G., D.Sc., F.R.E.S. Changes in wing pigmentation during the adult life of ACRIDIDAE (Orthoptera) . 7

BURTT, E. D., Ph.D., F.R.E.S. A note on variation in living *Glossina brevipalpis* Newstead (Diptera), with particular reference to a red-coloured form found in nature 137

BUSVINE, J. R., B.Sc., Ph.D. Simple experiments on the behaviour of body lice (Siphunculata) 22

CALLAN, E. McC., B.Sc., A.R.C.S., D.I.C., Ph.D., F.R.E.S. A note on *Phanuropsis semiflaviventris* Girault (Hym., SCELIONIDAE), an egg-parasite of cacao stink-bugs 48

CARPENTER, Professor G. D. Hale, M.B.E., D.M., F.R.E.S. Evidence of extensive destruction of *Danaus chrysippus* L. (Lepidoptera) in S.W. Abyssinia. With a note by Lt.-Col. F. C. FRASER, M.D., I.M.S. Rtd., on method of capture by mantids 27

CHORLEY, T. W., F.R.E.S. *Glossina palpalis fuscipes* breeding away from water (Diptera) 1

CLASSEY, E. W., F.R.E.S. The mosquitoes of the Hants–Surrey border (Blackwater Valley region) 109

COCKAYNE, E. A., M.A., D.M., F.R.C.P., F.R.E.S. Homoeosis in *Psychoda phalaenoides* L. (Diptera) 49

CROMBIE, A. C. Sensillae of the adults and larvae of the beetle *Rhizopertha dominica* Fab. (BOSTRICHIDAE) 131

FELDMAN-MUHSAM, B. A note on the conditions of pupation of *Musca domestica vicina* (Diptera) in Palestine, and its application 139

FORD, E. B., M.A., D.Sc. Studies on the chemistry of pigments in the Lepidoptera, with reference to their bearing on systematics. 3. The red pigments of the PAPILIONIDAE 92

FRAENKEL, G., and BLEWETT, M. Stages in the recognition of biotin as a growth factor for insects 30

HARDY, G. H. The copulation and the terminal segments of Diptera 52

HENSON, H., B.Sc., Ph.D., F.R.E.S. The development of the Malpighian tubules of *Blatta orientalis* (Orthoptera) 73

HICKIN, N. E., Ph.D., F.R.E.S. Larvae of the British Trichoptera. 20. *Neuronia ruficrus* Scopoli (PHRYGANEIDAE) 9

HINTON, H. E., B.Sc., Ph.D., F.R.E.S. Some general remarks on sub-social beetles, with notes on the biology of the Staphylinid, *Platystethus arenarius* (Fourcroy) 115

JONES, Margaret G. The structure of the antenna of *Aphis* (*Doralis*) *fabae* Scopoli, and of *Melanoxantherium salicis* L. (Hemiptera), and some experiments on olfactory responses 13

OLIVER, Prof. F. W., F.R.S. A mass catch of Cabbage Whites by sundews . . . 5

PEARCE, Rev. E. J., M.A., F.R.E.S. On a remarkable specimen of *Bythinus puncticollis* Denny (Col., PSELAPHIDAE) 66

PAGE

PONTECORVO, G., Ph.D. Ducteoles of the secretory cells in the spermatheca of *Psila rosae* Fabricius (Diptera, PSILIDAE) 6

RICHARDS, O. W., M.A., D.Sc., F.R.E.S. Observations on aculeate Hymenoptera . 133

SEVASTOPULO, D. G., F.R.E.S. Note on the courtship of *Euploea core core* Cr. With a Comment by Prof. G. D. Hale CARPENTER, D.M., M.B.E., F.R.E.S. . . 138

SHIELD, Sergeant G. W., B.Sc., R.A.M.C. Description of 4th-instar larvae of *Aedes* (*Mucidus*) *grahami* Theobald (Diptera) 129

VANDERPLANK, F. L. Apparent densities of certain African blood-sucking insects (Diptera) 68

ZALESSKY, George. A brief statement of reasons for some changes in the terminology of insect wing-venation 37

BOOK NOTICES 35, 65, 108

INDEX 141